# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.14/KRIDL/CEMENT/2014-15

Date: 04.07.2014

## TEST REPORT

| | | |
|---|---|---|
| CLIENT | : | **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore. |
| AGENCY | : | **Technical Manager (West),** KRIDL, Bangalore. |
| NAME OF THE WORK | : | Improvement to drain at 5th & 1st B Cross Road at defence colony in Ward No.14, Bagalagunte, BBMP, Bangalore. |
| REFERENCE | : | BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 01.07.2014 |
| SAMPLE ID | : | CEMENT |
| SAMPLES SUPPLIED BY | : | AGENCY |

The results of the tests conducted on the cement sample are as follows:

| Sl. No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 8112-2013 |
|---|---|---|---|---|
| 1 | Standard Consistency | IS-4031 (Part -4) | 31.00 % | - |
| 2 | a) Initial Setting Time | IS-4031 (Part -5) | 155 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part -5) | 485 Minutes | Not More than 600 Minutes |
| 3 | Soundness) by the Le-Chatelier method | IS-4031 (Part 3) | 1 mm | Not more than 10 mm |

Note:

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Bangalore-560079.

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**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.14/KRIDL/SAND/2014-15 : 04.07.2014

## TEST REPORT ON FINE AGGREGATES
## IS 383-1970 (RA- 2002)

**Client** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Technical Manager (West),** KRIDL, Bangalore.

**Name of Work** : Improvement to drain at 5th & 1st B Cross Road at defence colony in Ward No.14, Bagalagunte, BBMP, Bangalore.

**Reference** : BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 01.07.2014

Date of Testing : 04.07.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 90 | 4.50 | 4.50 | 95.5 | 90-100 |
| 2.36 | 195 | 9.75 | 14.25 | 85.8 | 75-100 |
| 1.18 | 480 | 24.00 | 38.25 | 61.8 | 55-90 |
| 600 Micron | 358 | 17.90 | 56.15 | 43.9 | 35-59 |
| 300 Micron | 525 | 26.25 | 82.40 | 17.6 | 8-30 |
| 150 Micron | 205 | 10.25 | 92.65 | 7.3 | 0-10 |

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**Bangalore-560079.**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.14/KRIDL/AGG/2014-15 : 04.07.2014

## TEST REPORT ON COARSE AGGREGATES
## IS 383-1970 (RA- 2002)

**Client** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Technical Manager (West),** KRIDL, Bangalore.

**Name of Work** : Improvement to drain at 5th & 1st B Cross Road at defence colony in Ward No.14, Bagalagunte, BBMP, Bangalore.

**Reference** : BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 01.07.2014

Date of Testing : 04.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---|---|---|---|---|---|
| 80 | 0 | 0 | 0 | 100 | 100 |
| 40 | 885 | 3.54 | 3.54 | 96.46 | 95-100 |
| 20 | 16085 | 64.34 | 67.88 | 32.12 | 30-70 |
| 10 | 4915 | 19.66 | 87.54 | 12.46 | 10-35 |
| 4.75 | 2745 | 10.98 | 98.52 | 1.48 | 0-5 |

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005


Job No.: CTCE/BBMP/W.No.14/KRIDL/CC Blocks/2014-15 08.07.2014

## TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of the Work : Improvement to drain at 5th & 1st B Cross Road at defence colony in Ward No.14, Bagalagunte, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 01.07.2014

Size of Block : 400 mm x 200 mm x 200 mm

Cross Sectional Area : 80000 $mm^2$

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 03

| Sl.No. | Date of Sampling | Date of testing | Failure load (KN) | Compressive strength | Minimum Compressive Strength of Individual Units |
|---|---|---|---|---|---|
| | | | kN | $N/mm^2$ | $N/mm^2$ |
| 1 | 06.07.2014 | 08.07.2014 | 261.5 | 3.27 | |
| 2 | 06.07.2014 | 08.07.2014 | 262.2 | 3.28 | 3.2 |
| 3 | 06.07.2014 | 08.07.2014 | 263.3 | 3.29 | |

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**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.14/KRIDL/CUBE/2014-15

19.08.2014

## TEST REPORT ON CONCRETE CUBES

| | |
|---|---|
| Client | : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore. |
| Agency | : **Technical Manager (West),** KRIDL, Bangalore. |
| Name of the work | : Improvement to drain at 5th & 1st B Cross Road at defence colony in Ward No.14, Bagalagunte, BBMP, Bangalore. |
| Reference | : BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 01.07.2014 |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{15}$ |
| Compressive Strength as on | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 22.07.2014 | 19.08.2014 | 8.366 | 368.8 | 16.39 |
| 2 | 22.07.2014 | 19.08.2014 | 8.452 | 380.2 | 16.90 |
| 3 | 22.07.2014 | 19.08.2014 | 8.274 | 355.5 | 15.80 |

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